To: Russ, Timothy[Russ.Tim@epa.gov]; Houk, Jeff (FHWA)[Jeff.Houk@dot.gov]; Perritt, Karen (FHWA)[Karen.Perritt@dot.gov]; Henderson - CDOT, Vanessa[vanessa.henderson@state.co.us]

Jackson, Scott[Jackson.Scott@epa.gov]; Patulski, Meg[patulski.meg@epa.gov]; Berry,

Laura[berry.laura@epa.gov]; Dresser, Chris[Dresser.Chris@epa.gov]; Anderson, Carol[Anderson.Carol@epa.gov]; Odendahl, Steve[Odendahl.Steve@epa.gov]; Dubey,

Susmita[dubey.susmita@epa.gov]; Denawa, Mai[Denawa.Mai@epa.gov]

From: Horn, Chris (FHWA)

Sent: Wed 11/30/2016 2:20:41 PM

Subject: RE: Information Transmittal to FHWA/CDOT: I-70 East Project PM Hot-spot Modeling

[WARNING: DKIM validation failed]

Fwd: I-70 East Air Quality

Tim,

Referred to FHWA

I will address your second concern under a separate email.

Chris Horn, PE Senior Area Engineer Colorado Division Federal Highway Administration 720-963-3017 From: Russ, Timothy [mailto:Russ.Tim@epa.gov] Sent: Friday, November 18, 2016 1:20 PM To: Horn, Chris (FHWA); Houk, Jeff (FHWA); Perritt, Karen (FHWA); Henderson - CDOT, Vanessa Cc: Jackson, Scott; Patulski, Meg; Berry, Laura; Dresser, Chris; Anderson, Carol; Odendahl, Steve; Dubey, Susmita; Denawa, Mai Subject: Information Transmittal to FHWA/CDOT: I-70 East Project PM Hot-spot Modeling Hi Chris, Jeff, Karen, and Vanessa, Based on the Cooperating Agencies consultation meeting of October 25, 2016, subsequent information provided by FHWA, and on our EPA-FHWA conference call of November 17, 2016, EPA offers the below information regarding the I-70 East project's conformity determination evaluation for PM₁₀. The first item is with respect to the selection of the La Casa air monitoring location, and its three years of data, for the background monitor for the PM₁₀ hot-spot modeling. The second item addresses EPA's recommendation to FHWA regarding a sensitivity analysis for the for the PM₁₀ hot-spot modeling. Please let me know if there are any questions.

Thanks!

Tim

Tim Russ Environmental Scientist USEPA Region 8 Air Program 1595 Wynkoop Street (8P-AR) Denver, CO 80202-1129 Ph. (303) 312-6479

Ph. (303) 312-6479 Fax (303) 312-6064

e-mail: russ.tim@epa.gov

Ex. 5 - Deliberative Process

La Casa (CASA)

Region: Denver Monitoring Station 4545 Navajo Street

SAROAD:

AQS ID: 080310026 Latitude: 39.779460 Longitude: -105.005124

Reporting capabilities (hourly) SLAMS: <u>CO</u>, <u>PM10</u>, <u>PM2.5</u>

NAMS: <u>03</u>, <u>S02</u>

SPM: NO, RD, RS, TEMP, WD, WS

EPA's November, 2015 PM Hot-spot modeling guidance ("Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas") notes the following in section 9.3.4 *24-hour PM₁₀ NAAQS*:

Calculating Design Values and Determining Conformity

The 24-hour PM₁₀ design value is calculated at each receptor by directly adding the sixth-highest modeled 24-hour concentrations (if using five years of meteorological data) to the appropriate monitor value for the 24-hour background concentration from three years of monitoring data, based on Exhibit 9-6. Exhibit 9-6: Monitor Value Used for Design Value Calculation

Number of Background	Monitor Value Used for
Concentration Values from	Design Value Calculation
the Monitor	
< 347	Highest Monitor Value
348 -695	Second Highest Value
696 -1042	Third Highest Value
1043 -1096	Fourth Highest Value

PM₁₀ data from the La Casa monitoring site are provided in the table below:

POC 1 1 in 3 Sampler

Year	Ν	Highest value	2 nd highest	3 rd highest	4 th highest
2015	119	55	48	44	43
2014	127	66	65	62	62
2013	122	81	73	56	45

[&]quot;N" = the number of days of valid data recovery.

